

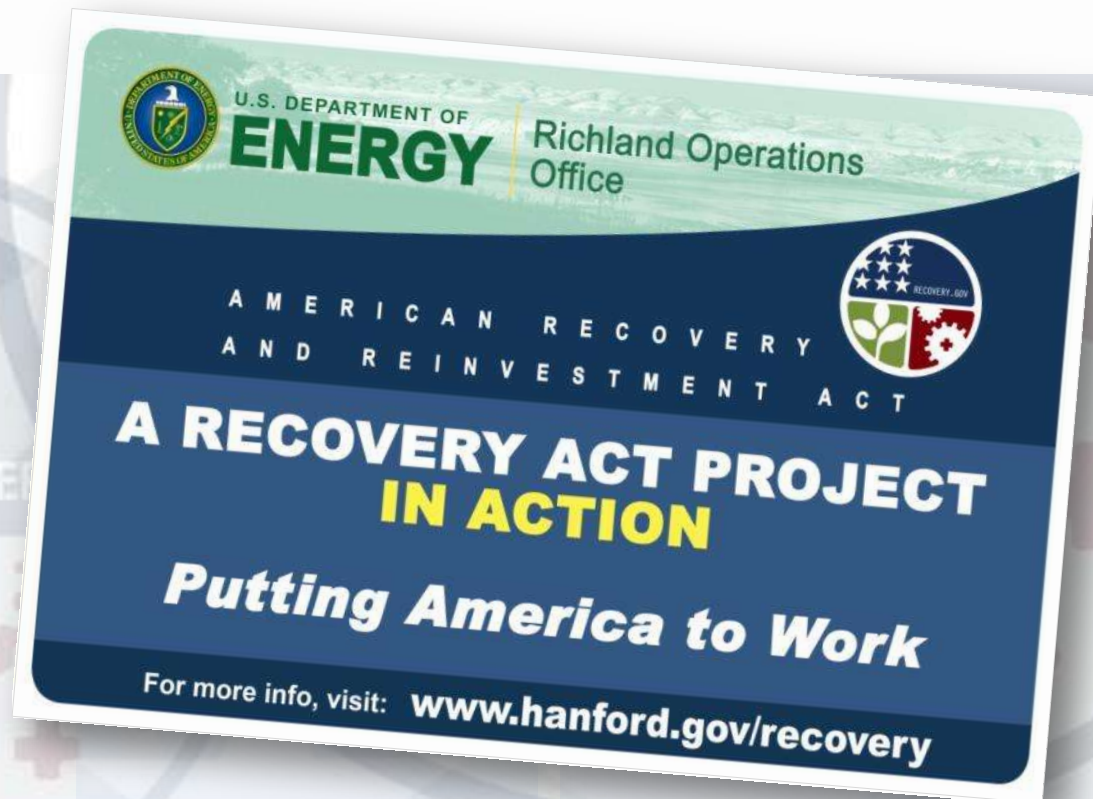


# Recovery Act Update

Department of Energy  
Richland Operations Office  
September 21, 2010

Presented to:  
Tri-Cities Chapter, Washington Society  
of Professional Engineers

Presented by:  
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Recovery Act Program Manager  
DOE Richland Operations Office





# ARRA Site Overview

- \$1.961 billion in funding received
  - DOE Richland Operations Office: \$1.635 billion
  - DOE Office of River Protection: \$326 million
- Funding spent as of August 31, 2010
  - \$806,337,029
- 3 prime contractors have awarded more than 1,200 subcontracts with a total value of \$735 million
  - \$478 million (65 percent) in subcontracts awarded to small businesses
  - \$443 million (60 percent) in subcontracts awarded to local businesses



# ARRA Site Overview – Jobs

- FTEs (April-June 2010): 3,124
- Headcount on June 30, 2010: 8,002
- FTEs (full-time equivalents) converts total hours worked during the quarter to an estimated number of jobs if all were full time and completely funded by the Recovery Act.
- DOE Office of Environmental Management Headcount (Lives Touched): The total number of people that have ever had a job at least partially funded by the Recovery Act since funding was received in April 2009.



First 100 grads from HAMMER training facility





# Project Budgets & Schedules

- Overall, Richland Operations Office Recovery Act Projects are 12 percent under budget (costing less than projected)
- 11 of 13 projects are on schedule
- 2 projects behind schedule but expected to finish on schedule
  - 618-10 Burial Ground Remediation
  - Soil & Groundwater Remediation



Demolishing K East Reactor Stack



# Key Progress/Accomplishments

*\*Through August 2010*

- Demolished 34 facilities (85,000 square feet)
- Remediated 44 waste sites

U Plant Ancillary Facility Demolition



100K Area Waste Site Remediation







# Key Progress/Accomplishments

*\*Through August 2010*

- Retrieved 521 cubic meters of solid waste from storage trenches
- Removed 62 large pieces of equipment (glove boxes and vent hoods) from Plutonium Finishing Plant

Retrieving waste from trenches



Removing a glove box from Plutonium Finishing Plant





# Key Progress/Accomplishments

*\*Through August 2010*

- Waste disposal rate from cleanup increased from 200 trucks per day in 2009 to 450 per day
- Completed excavation of 3.3 million cubic yards soil for two new disposal cells (Super Cells) at the Environmental Restoration Disposal Facility (ERDF)
- Building liner and leachate (liquid) collection systems

Installing one of several layers of liner materials to form a barrier to liquids



Installing a liner layer at ERDF





# Key Progress/Accomplishments (cont.)

*\*Through August 2010*

- **Installed radiation monitoring** devices to conduct characterization of the 618-10 Burial Ground, one of Hanford's most hazardous waste sites
- Conducted intrusive characterization of the 618-10 Burial Ground

Intrusive characterization, 618-10 Burial Ground







# Building Groundwater Treatment Systems

*\*Through August 2010*

- Installed 260 wells for monitoring and treating groundwater
- One new treatment system built along Columbia River
- Another under construction on Central Plateau
- New treatment systems across the Hanford Site will quadruple current treatment capacity of 50 million gallons per month







# D&D at Plutonium Finishing Plant







# Retrieving Transuranic Waste





# Demolishing U Canyon Ancillary Structures







# Expanding ERDF







# Demolishing Facilities 100K Area

183-KW Sedimentation Basin – October 2009



183-KW – April 2010



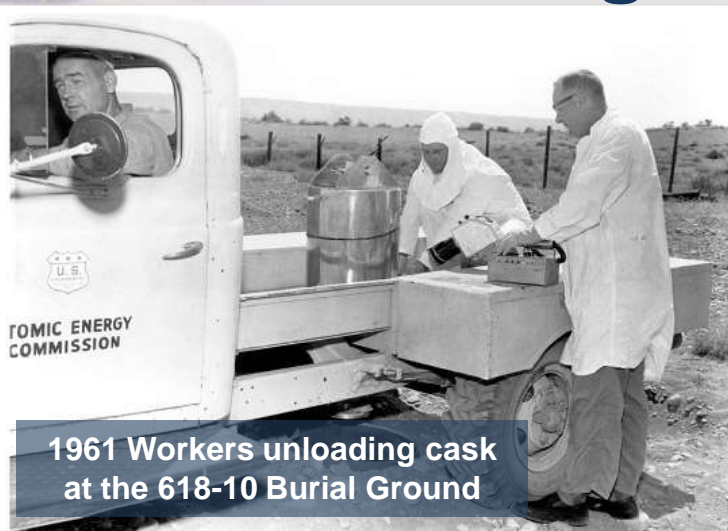
115KE Gas Recirculation Bldg.







# Characterizing 618-10 Burial Ground



1961 Workers unloading cask at the 618-10 Burial Ground



Taking soil samples to characterize the waste

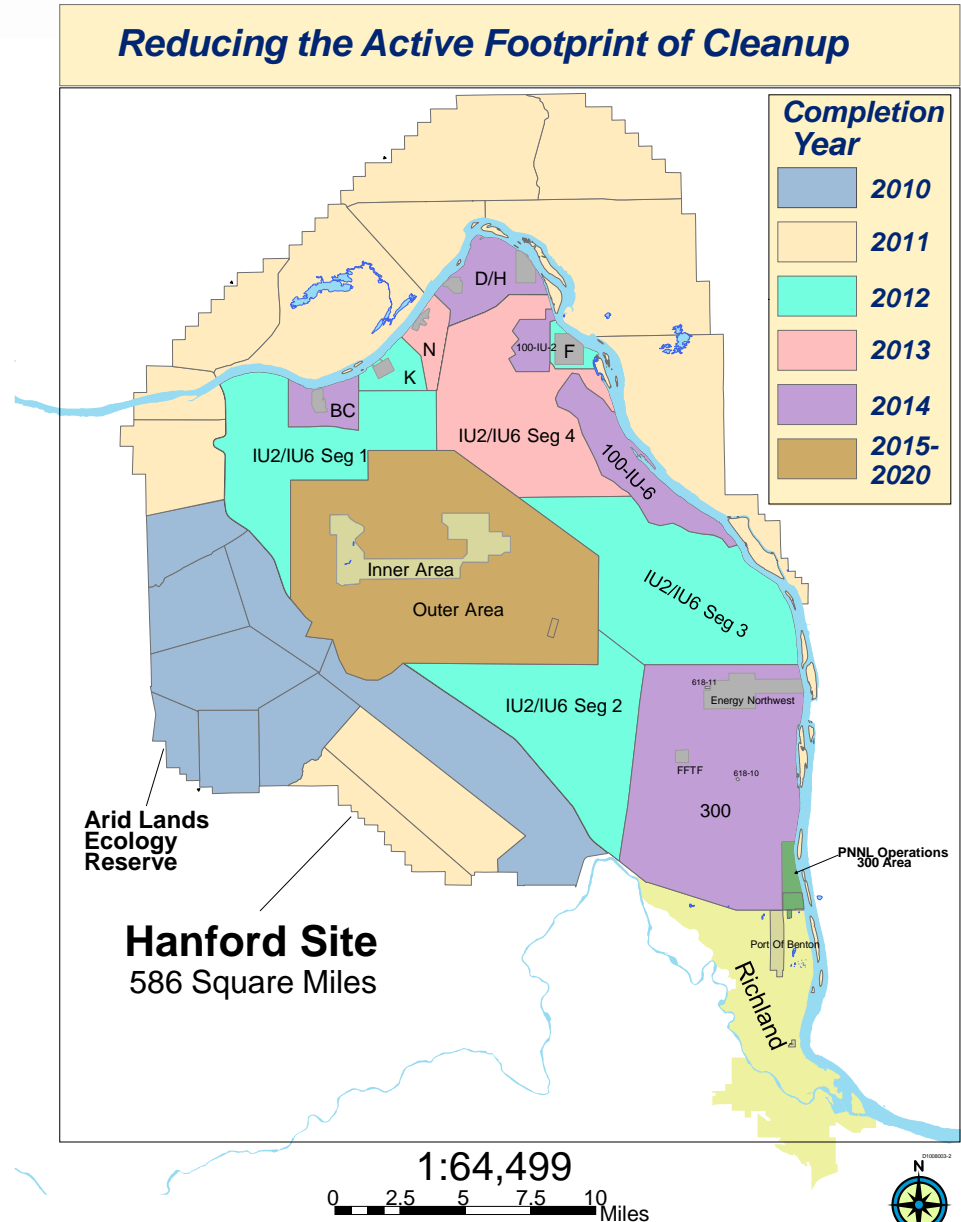


A soil sampling mockup



# Reducing Hanford's Cleanup Footprint

- Original cleanup footprint  
586 sq. mi.
- Planned Cleanup footprint reduction  
45-60% by end of FY 2011  
85-90% by end of FY 2015







# Planning for Post-ARRA Funded Cleanup

- All ARRA work originally planned will be completed before the end of fiscal year 2011, as scheduled
- Work efficiencies (getting work done faster and/or at a lower cost than projected) are allowing DOE to fund \$150 million of additional projects through the end of fiscal year 2012



## More Information

- <http://www.hanford.gov/>
- <http://www.hanford.gov/Recovery>
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